

Engineering and reliance

RYODEN DUMBWAITER

NEW MODEL SERIES-F TYPE-RTM & RLM



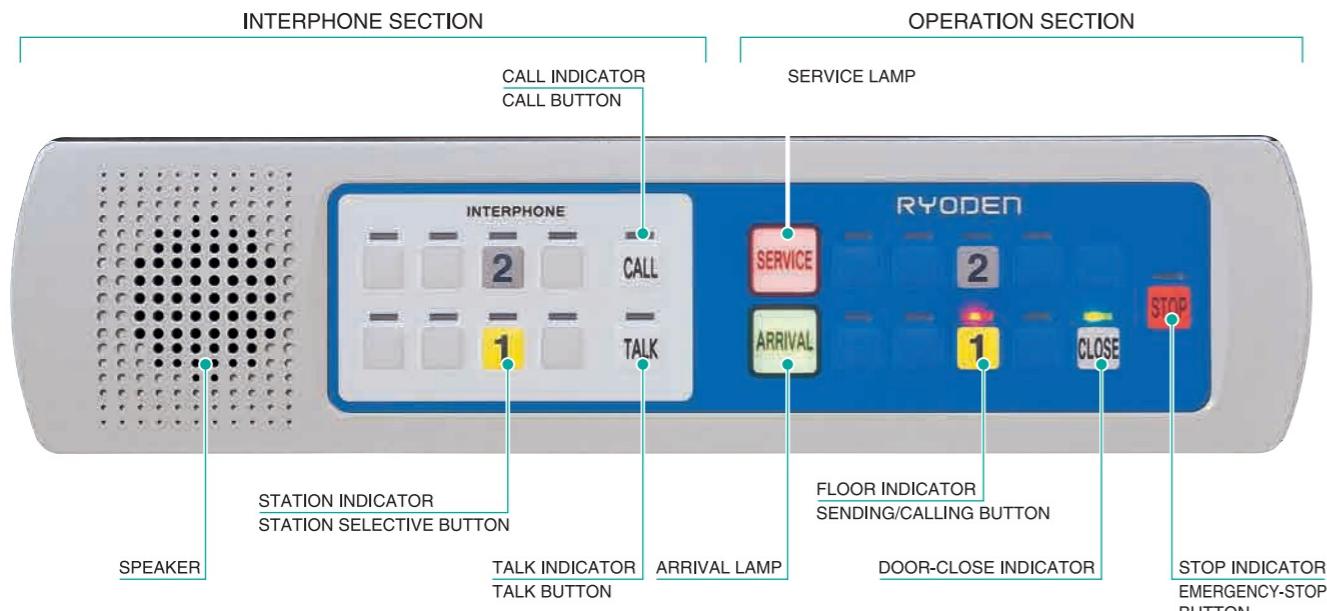
SERIES F
Full Model Change



The Innovation in Convenience by RYODEN Series F.

The Ryoden Series F Dumbwaiter offers convenience in vertical transportation of light loads by its high-performance in the operation speeds, reliability, energy and space saving features and others.

OPERATING PANEL



The operating panel shown above is for the floor-type dumbwaiter. The table-type dumbwaiter features a vertically oriented operating panel. Both panels offer identical functions.

The operation status of the dumbwaiter can be easily understood by the large SERVICE or ARRIVAL lamp.

The Optimal Functionality

1

All types are provided with VVVF inverter-controls for high speed up to 45mpm.

- (1) Operation speed as high as 45mpm improves the transportation efficiency.
[NOTE]The speed of type RLM with capacity of 500KG is 23mpm.
- (2) The accuracy of its automatic landing feature is extremely high, ensuring the landing of the cage within ±5mm from the building floor. This eliminates the need for tedious re-leveling by an inching switch.
- (3) Energy saving efficiency is 20% better than that of conventional dumbwaiters.
- (4) Space saving efficiency in the hoistway dimensions and the machine room height is better than that of conventional dumbwaiters.

2

All types are equipped with the cage door as the standard specification.

- (1) The cage door minimizes sudden stops of dumbwaiter that may occur when goods have fallen off the cage.

3

Operating panel with water-resistant sheet switch.

- (1) The water-resistant sheet switch protects short circuit by water.

Two Types of Opening for The Purposes.

TABLE TYPE

Since the opening is mounted in the height of human waist, this type is suitable to the spreading of the table for dinner and the transportation of baggage such as books



RTM-100

FLOOR TYPE

Since the opening is provided on the same level as the building floor, this type dumbwaiter is suitable to transport the spreading-car for the table of dinner and the hand cart.

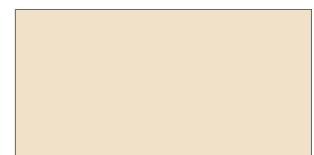


RLM-300

■ STANDARD SPECIFICATION

TABLE TYPE RTM	STANDARD SPECIFICATION	
	ENTRANCE	JAMB, DOOR TABLE
CAGE	CEILING, WALL	PAINTED STEEL SHEET
	FLOOR	STAINLESS STEEL HAIR-LINE FINISHED
	DOOR	PAINTED STEEL SHEET
	SHELF BOARD	STAINLESS STEEL HAIR-LINE FINISHED

■ STANDARD COLORS



No.601



No.602



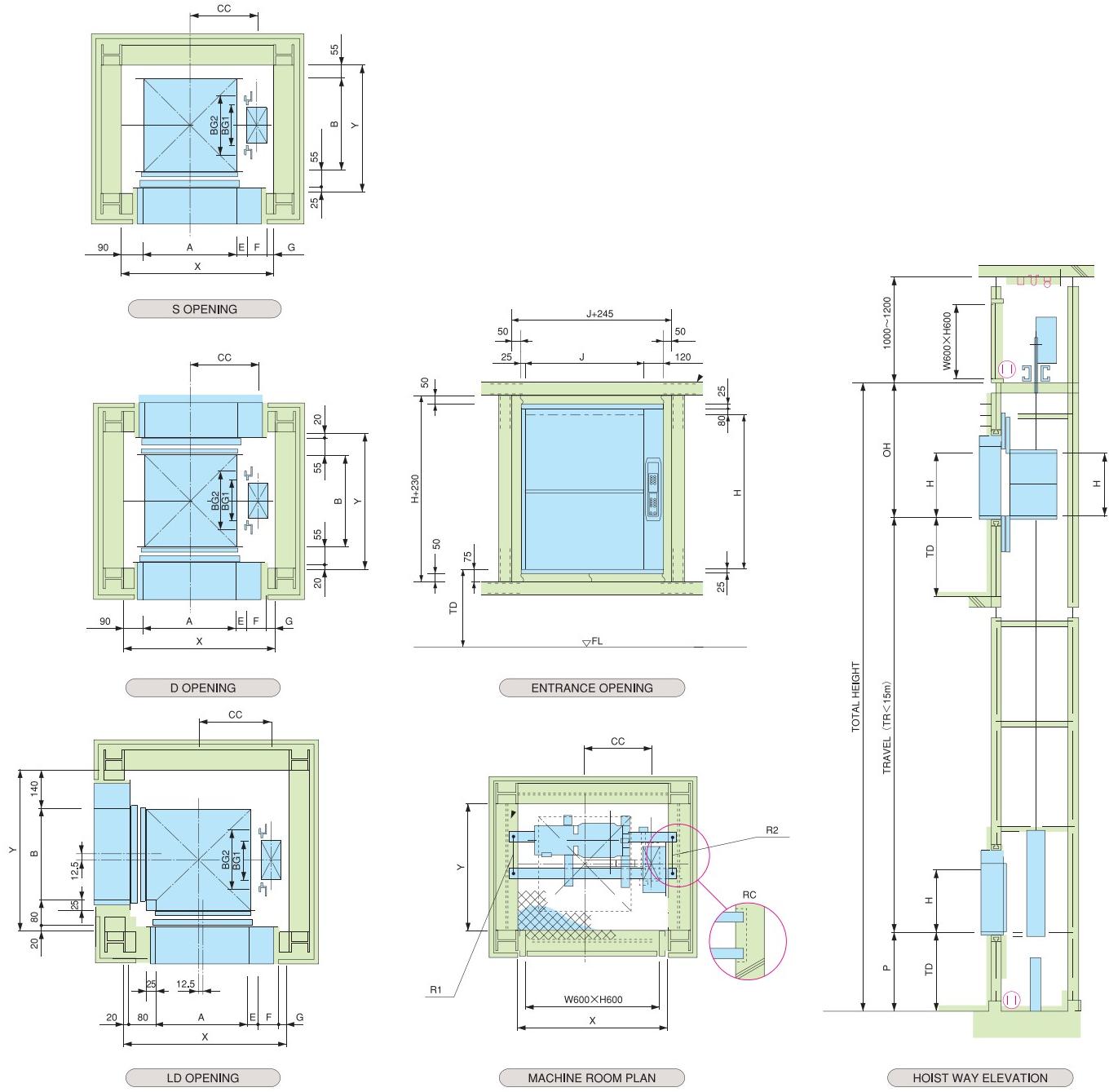
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FLOOR TYPE RLM	STANDARD SPECIFICATION	
	ENTRANCE	JAMB, DOOR SILL
CAGE	CEILING, WALL	PAINTED STEEL SHEET
	FLOOR	PAINTED CHECKERED STEEL SHEET
	DOOR	PAINTED STEEL SHEET

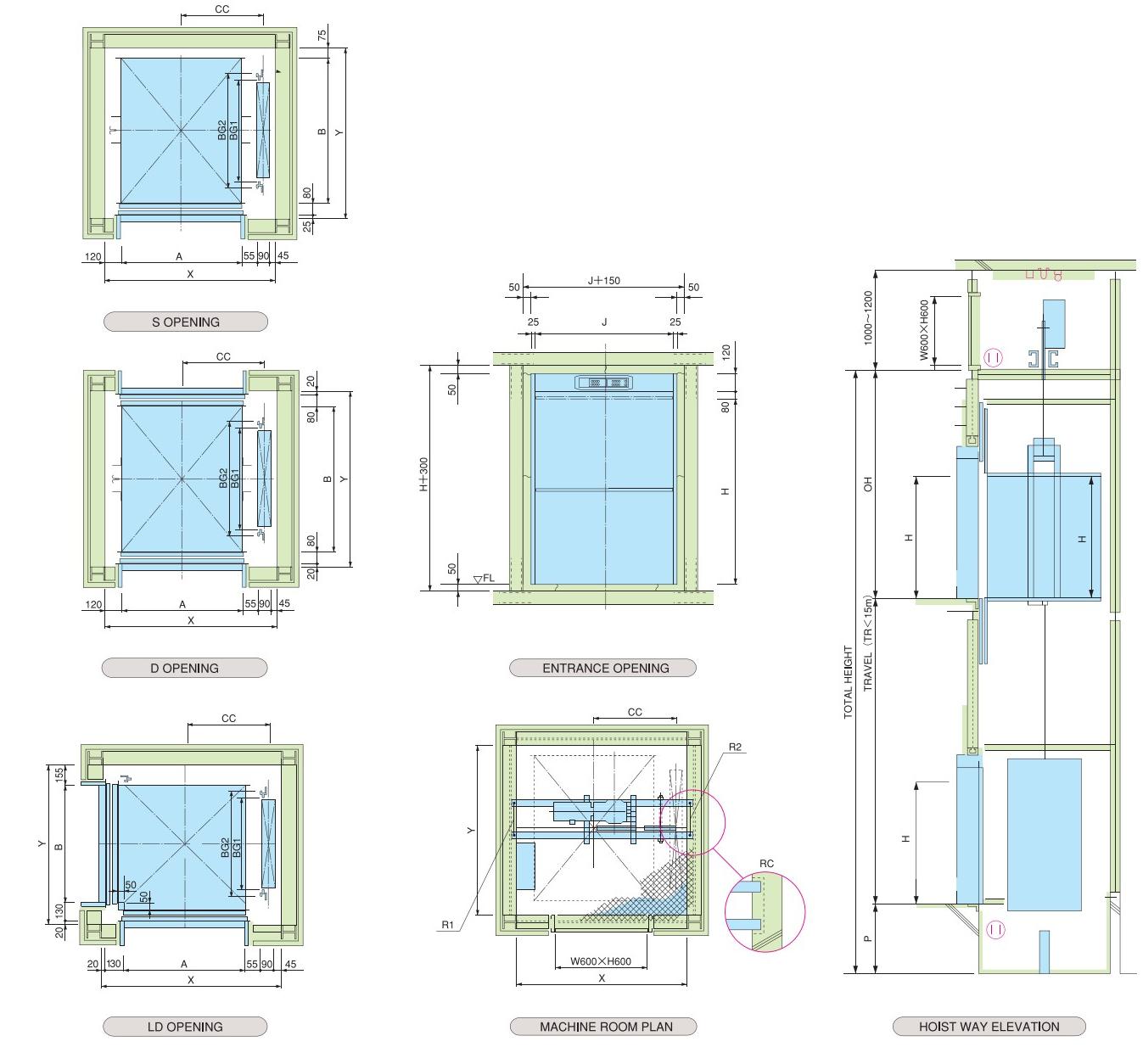
Actual colors may vary due to variations in the printing process.

TABLE TYPE RTM

FLOOR TYPE RLM



TYPE	ENTRANCE OPENING	CAPACITY (kg)	MOTOR (Kw-P)	SPEED (m/min)	CAGE INTERNAL DIMENSION		HOISTWAY INTERNAL DIMENSION & HOISTWAY DIMENSIONS						ENTRANCE DIMENSIONS		PIT	TABLE HEIGHT	MACHINE BEAM REACTION LOAD R1(kN)	MACHINE BEAM REACTION LOAD R2(kN)	SHELF	[mm]				
					A	X	B	X	H	X	Y	CC	E	F	G	BG1	BG2	OH	J	H	P			
RTM- 30-S -45	SINGLE OPENING	30	0.4 -4	INVERTER CONTROL 45	745	635	500	500	750	745	650	277.5	12	35	108	200	278	1425	500	750	700	1.2	2.1	1
RTM- 30-D -45	FRONT & BACK OPENING																							
RTM- 30-LD-45	FRONT & SIDE OPENING																							
RTM- 50-S -45	SINGLE OPENING	50	0.4 -4	INVERTER CONTROL 45	845	735	600	600	750	845	750	327.5	12	35	108	300	378	1425	600	750	700	1.7	2.7	1
RTM- 50-D -45	FRONT & BACK OPENING																							
RTM- 50-LD-45	FRONT & SIDE OPENING																							
RTM-100-S -45	SINGLE OPENING	100	0.75 -4	INVERTER CONTROL 45	995	885	750	750	900	995	900	425	12.5	75	67.5	450	528	1650	750	900	650	2.6	4.2	2
RTM-100-D -45	FRONT & BACK OPENING																							
RTM-100-LD-45	FRONT & SIDE OPENING																							



TYPE	ENTRANCE OPENING	CAPACITY (kg)	MOTOR (Kw-P)	SPEED (m/min)	CAGE INTERNAL DIMENSION		HOISTWAY INTERNAL DIMENSION & HOISTWAY DIMENSIONS						OVER HEAD	ENTRANCE DIMENSIONS	PIT	MACHINE BEAM REACTION LOAD R1(kN)	MACHINE BEAM REACTION LOAD R2(kN)	ROPE		
					A	X	B	X	H	X	Y	CC	E	F	G	BG1	BG2	OH	J	H
RLM-200-S -45	SINGLE OPENING	200	1.5 -4	INVERTER CONTROL 45	900X1100X1200	1210	1280	550	750	828							2100	900	5.9	7.7
RLM-200-D -45	FRONT & BACK OPENING				1000X1000X1200	1310	1180	600	750	828										
RLM-200-LD-45	FRONT & SIDE OPENING				900X1100X1200	1210	1300	550	750	828										
RLM-300-S -45	SINGLE OPENING				900X1000X1200	1310	1200	600	750	828										
RLM-300-D -45	FRONT & BACK OPENING	300	2.2 -4	INVERTER CONTROL 45	900X1100X1200	1210	1280	550	750	828							2100	900	7.5	9.8
RLM-300-LD-45	FRONT & SIDE OPENING				1000X1000X1200	1310	1200	600	750	828										
RLM-500-S -23	SINGLE OPENING	500	2.2 -4	INVERTER CONTROL 23	900X1100X1200	1210	1280	550	750	828							2100	900	9.4	14.7
RLM-500-D -23	FRONT & BACK OPENING				1000X1000X1200	1310	1180	600	750	828										
RLM-500-LD-23	FRONT & SIDE OPENING				900X1100X1200	1210	1300	550	750	828										
RLM-500-LD-23	FRONT & SIDE OPENING				1000X1000X1200	1310	1200	600	750	828										

■ OPTIONAL ITEMS (WITH ADDITIONAL PRICE)

ON DETAILS EXCEPT FOR STANDARD SPECIFICATIONS, PLEASE CONSULT TO RYODEN.

(1) COMMON ITEMS

ITEM	OPTIONS	YES or NO	REMARKS
1	SPECIAL CAR SIZE	YES	RTM TYPE (within below figures) 500 ≤ A ≤ 750, 600 ≤ H ≤ 900 RLM TYPE (within below figures) 800 ≤ A ≤ 1000, 1000 ≤ B ≤ 1150
2	MOTOR DRIVEN ENTRANCE AND CAGE DOOR WITH REMOTE-CONTROL DEVICE	YES	CAGE CAN BE CALLED BY HANDY REMOTE-CONTROL DEVICE. DOORS OPEN ON ARRIVAL.
3	CAR AND CWT. SAFETY	YES	SINGLE AND FRONT & BACK OPENING ONLY

REMARKS; ITEMS ABOVE REQUIRE CHANGES IN THE HOISTWAY DIMENSIONS.

(2) FOR TABLE TYPE

ITEM	OPTIONS	YES or NO	REMARKS
1	STAINLESS STEEL HAIR-LINE FINISHED JAMB	YES	PAINTED STEEL SHEET IS STANDARD.
2	STAINLESS STEEL HAIR-LINE FINISHED ENTRANCE DOOR	YES	PAINTED STEEL SHEET IS STANDARD.
3	STAINLESS STEEL HAIR-LINE FINISHED CAGE (CEILING, WALL, DOOR)	YES	PAINTED STEEL SHEET IS STANDARD.

(3) FOR FLOOR TYPE

ITEM	OPTIONS	YES or NO	REMARKS
1	STAINLESS STEEL HAIR-LINE FINISHED JAMB	YES	PAINTED STEEL SHEET IS STANDARD.
2	STAINLESS STEEL HAIR-LINE FINISHED ENTRANCE DOOR	YES	PAINTED STEEL SHEET IS STANDARD.
3	STAINLESS STEEL SILL	YES	PAINTED ANGLED STEEL IS STANDARD.
4	CHECKERED STEEL PLATE SILL (PAINTED BLACK ENAMEL)	YES	PAINTED ANGLED STEEL IS STANDARD.
5	STAINLESS STEEL HAIR-LINE FINISHED CAGE (CEILING, WALL, DOOR, FLOOR)	YES	PAINTED STEEL SHEET IS STANDARD.

WORKS NOT INCLUDED IN INSTALLATION CONTRACT

1. THE CONSTRUCTION WORKS OF HOISTWAY AND MACHINE ROOM.
2. HOLES OF MACHINE ROOM FLOOR AND OPENINGS OF EACH FLOOR.
3. MACHINE ROOM ENTRANCE.
4. OPENING FOR CARRYING CONTROL PANEL AND MACHINE, AND THEIR POURING.
5. PIT WATERPROOF WORKS
6. WIRINGS FOR POWER SUPPLY INCLUDING EARTHING TO POWER RECEIVING BOX IN MACHINE ROOM.
7. WIRING FOR SIGNAL POWER SUPPLY TO POWER RECEIVING BOX IN MACHINE ROOM.
8. ILLUMINATION EQUIPMENT WORKS IN MACHINE ROOM AND ELECTRIC OUTLET FOR INSPECTION.
9. IF A GROUND FAULT INTERRUPTER IS USED AS THE CIRCUIT BREAKER, SET THE CURRENT SENSITIVITY TO 100 mA OR GREATER.

NOTES

1. VOLTAGE FLUCTUATION SHALL BE WITHIN +5%~10%
2. THE FOLLOWING CONDITIONS ARE REQUIRED FOR MAINTAINING THE PREDETERMINED PERFORMANCE.
 - (1) TEMPERATURE OF MACHINE ROOM SHALL BE BELOW 40°C.
 - (2) MOISTURE SHOULD BE BELOW 90% ON A MONTHLY AVERAGE AND BELOW 95% ON A DAILY AVERAGE.
 - (3) MACHINE ROOM AND THE HOISTWAY SHOULD BE FREE OF DUST OR HARMFUL GAS.
3. THE TUBE APPARATUSES FOR ELECTRICITY OR WATER SUPPLY SHALL NOT BE BURIED INTO HOISTWAY WALL.



RYODEN ELEVATOR CONSTRUCTION LTD

HEAD OFFICE : KS BLDG., 2-4 ICHIGAYA SADOHARACHO.
SHINJUKU-KU. TOKYO 162-8422 JAPAN
TEL.: 03-3235-9242

RYODEN DUMBWAITER

The Ryoden Dumbwaiter is a special freight-only elevator that links upper and lower floors in many business locations: not just in restaurants, but also in hospitals, schools, facilities for the aged or the disabled, offices, homes, and factories.

Models include the “table type” installed waist-high, and the “floor type” which is level with the floor to permit loads on wheels. The model lineup is pictured below.



Standard model
(floor type shown)



Remote model
(table type shown)



Clean dumbwaiter
(conveyor belt optional)

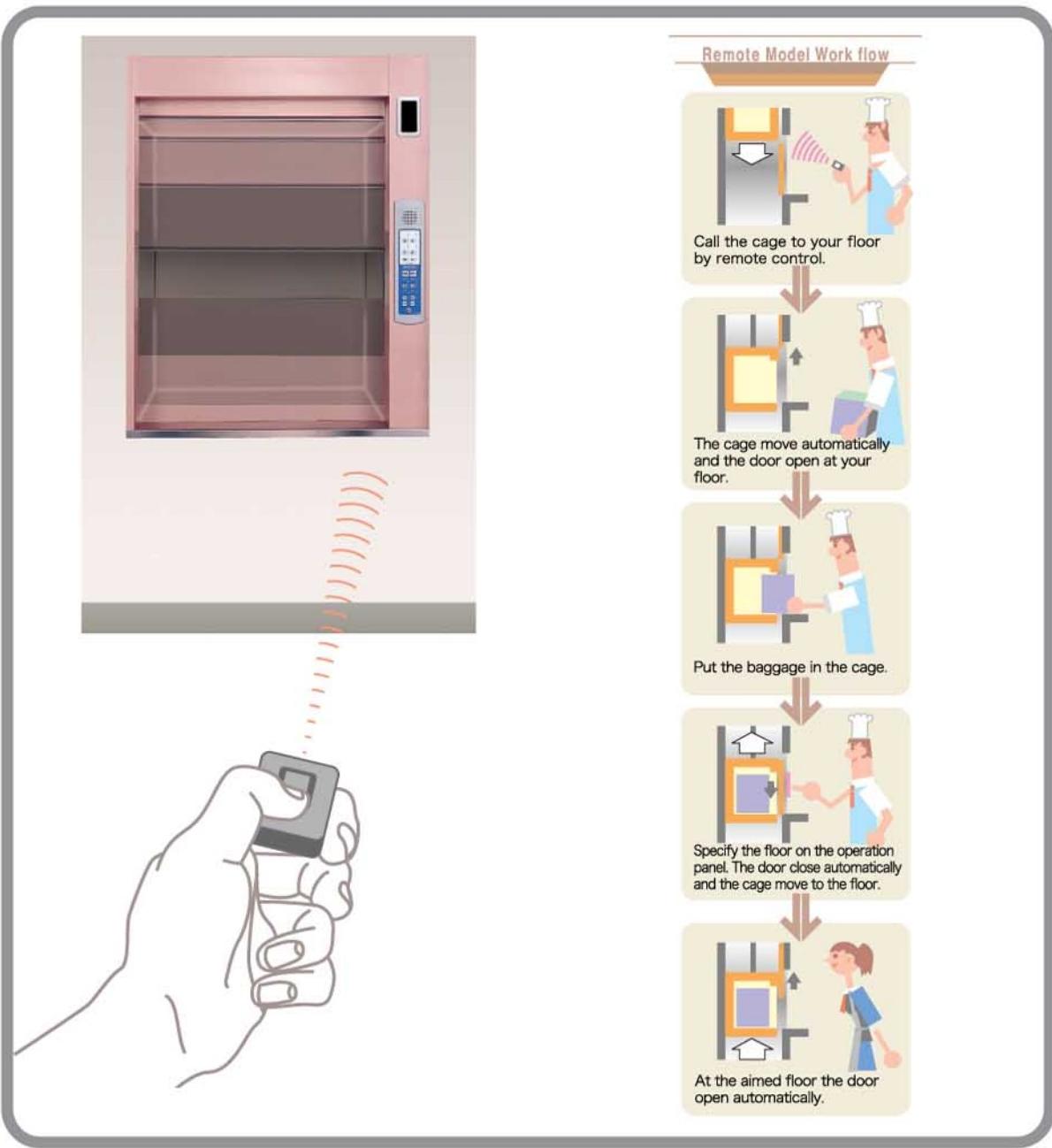
The standard model offers basic features but superior performance in the vertical transportation of small freight.

The remote model adds a remote control function to the standard model. The remote can be used to call the dumbwaiter and open the doors automatically.

The clean dumbwaiter is available for installation in a clean room. It features options such as the conveyor belt for automatic loading.

RYODEN DUMBWAITER

REMOTE MODEL SERIES-F



Attention 1

From remote location

Useful remote control

- You can call the cage anytime and from anywhere by remote control.
- First adoption of remote control system in the same products. You can profit efficiency of work.

Attention 2

By one-pushing of button

The door open automatically.

- By onetime pushing the button of remote control equipment, the cage come and the door open automatically.
- After check of the cage inside, you can transport the baggage. You can decrease loss-time.

Attention 3

For the first time

More clean and more sanitary.

- By remote control the electric door automatically open and close. It is clean and sanitary operation of dish because of,not same as the past,no use of hand at operation the door open and close.

